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CONFIRMATION NO. APPLICATION NO. ATTORNEY DOCKET NO. FILING DATE FIRST NAMED INVENTOR 10/606,484 06/26/2003 Lynn A. Turner 5630 210_588 20874 **EXAMINER** 7590 05/17/2004 WALL MARJAMA & BILINSKI TANNER, HARRY B 101 SOUTH SALINA STREET **ART UNIT** PAPER NUMBER SUITE 400 SYRACUSE, NY 13202 3744

DATE MAILED: 05/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· :		Application No.	Applicant(s)	
:		10/606,484	TURNER ET AL.	
	Office Action Summary	Examiner	Art Unit	
:	·	Harry B. Tanner	3744	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1)	Responsive to communication(s) filed on			
2a)□	This action is FINAL . 2b)⊠ This action is non-final.			
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) 🖂)⊠ Claim(s) <u>1-20</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
	5) Claim(s) is/are allowed.			
<u> </u>	⊠ Claim(s) <u>1-20</u> is/are rejected.			
7) 🔲 .	Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.				
Application Papers				
9) The specification is objected to by the Examiner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
:	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)				
· · —	ce of References Cited (PTO-892)	4) Interview Summa		
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 6/26/03.	Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date al Patent Application (PTO-152)	

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bahel et al (5,303,561) in view of Dudley et al. Bahel discloses the invention substantially as claimed. Bahel discloses a heat pump system in which the indoor fan speed is adjusted in response to outdoor air temperature (see Figure 3) such that the fan speed increases as the outdoor temperature increases. Dudley teaches the use of an indoor fan speed control that provides continuous adjustment of fan speed in order to provide accurate regulation of fan speed (see Figure 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system of Bahel such that it included the use of an indoor fan speed control that provides continuous adjustment of fan speed in order to provide accurate regulation of fan speed in view of the teachings of Dudley. The manner of speed control in response to outdoor temperature in the Bahel system is the same as that of applicant's system. It is inherent that such a control scheme (namely, fan speed increases as the outdoor temperature increases) will help maintain both the indoor coil temperature and compressor discharge pressure within desired limits with changing outdoor temperature and thus avoid a cold blow condition. It would have been obvious to one of ordinary

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skill in the art at the time the invention was made to design the system such that operation limits are within established standard limits for refrigeration grade vapor line piping and reliable operation of the compressor. The specific limits recited in claim 5 have not been shown to produce new and unexpected results and are considered to be well within the ability of one of ordinary skill in the art to obtain through routine experimentation.

Harry Tanner May 14, 2004 703-308-2622 Harry B. Tanner
Primary Examiner